

BIBLIOGRAPHICAL RECORD.

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Corrections of errors and notices of omissions are solicited.

Bacon, Austin. Insects destroyed by vegetables. (Bulletin Torrey bot. club, Dec. 1874, v. 5, p. 51-52, 6 cm.)

Mentions the occasional inability of *urocerata* to extricate their ovipositors from trees which they were boring; the capture of insects in the closing flowers of *nymphaea odorata*, and their destruction when the latter were drawn under water for the maturity of their fruit; and the occasional inability of gall insects and the apple borer to escape from their host plants.

W: T. (2216)

Bailey, W: Whitman. *Apocynum*. (Bull. Torrey bot. club, Feb. 1874, v. 5, p. 9-10, 12 cm.)

Records the capture of small coleoptera by the flowers, and quotes a passage from Dr. Darwin's "Loves of the flowers" concerning the similar capture of diptera.

W: T. (2217)

Bailey, W: Whitman. Bees on *gerardia pedicularia*, L. (Bull. Torrey bot. club, Oct. 1871, v. 2, p. 39, 8 cm.)

Humble bees [*bombus*] observed collecting nectar exclusively through perforations in the corolla.

W: T. (2218)

Bailey, W: Whitman. Perforation of *gerardia pedicularia* by bees. (Amer. nat., Nov. 1873, v. 7, p. 689-690, 22 cm.)

Finds that humble bees [*bombus*] visit the flowers but do not enter them from the mouth, obtaining nectar through perforations near the base of the corolla, which, however, he has never seen the bees make.

W: T. (2219)

Basket worm (The). A new and dangerous enemy to the hedges and evergreens hereabout. From the New York sun. (Kansas City [Kans.] journal, 12 Aug. 1880, p. 15, col. 1, 43 cm.)

Brief life-history of *thyridopteryx ephemeraeformis* and other notes upon this species, mostly by A. S. Fuller.

G: D. (2220)

Bassett, Homer Franklin. Description of a new species of *cynips*. *Cynips q. rileyi*, n. sp. (Amer. nat. Feb. 1881, v. 15, p. 149-150.) (Separate [General notes: entomology], from Amer. nat., Feb. 1881, p. 149-150.)

Description of the species and of its galls on *quer-cus castanea*.

G: D. (2221)

Beal, W. J. Agency of insects in fertilizing plants. (Amer. nat., 1867, v. 1, July, p. 254-260; Oct., p. 403-408.)

Describes the fertilization of *campanula*, *taraxacum*, *amorpha*, *lupinus*, *oenothera*, *digitalis*, *kalmia*, *andromeda* and *iris* by various insects.

W: T. (2222)

Bee-farm in New South Wales (A). (Colonies and India, 30 Oct. 1880, p. 10-11, 14 cm.)

Notes on the bee-farm of W: Dunn, of Sidney.

G: D. (2223)

Bell, James Thompson. Arboreal auscultation. (Can. entom., Jan. 1881, v. 13, p. 19-20.)

From observation of woodpeckers [*picus*] at work, the author thinks that the exact location of a "borer" in a tree can be determined with an instrument similar to a stethoscope or to an ear-trumpet, and the grub then killed by piercing with an awl.

G: D. (2224)

Bergroth, E. Die zwölfte skandinavische Naturforscher-Versammlung. (Entom. Nachrichten, 15 Nov. 1880, jahrg. 6, p. 256-257.)

Notice of the meeting of 7-14 July 1880, and list of 16 entomological papers read.

G: D. (2225)

Bethune, C: James Stewart, ed., see CANADIAN ENTOMOLOGIST.

[Bibliography of economic entomology.] (Amer. nat., Jan. 1881, v. 15, p. 84.) (Psyche, Nov. 1880 [Mar. 1881], v. 3, p. 143.)

Preliminary notices of a proposed bibliography of economic entomology to be prepared by the United States entomological commission.

G: D. (2226)

Bickford, Robert. Honey bee killed by silkworm pollen. (Amer. nat., Jan. 1869, v. 2, p. 665, 4 cm.)

Describes a hive bee [*apis mellifica*] so entangled by the *pollinia* of *asclepias* as to be unable to obtain its food, and hence starved to death.

W: T. (2227)

Blanc, H. Anatomie et physiologie de l'appareil sexuel male des phalangides. Spermatogénèse, fécondation, hermaphroditisme. (Bull. soc. vaud. sci. nat., Dec. 1880, s. 2, v. 17, no. 84, p. 49-78, pl. 4-6.)

Anatomical results based chiefly on study of *phalangium cornutum*, *ph. opilio*, *ph. longipes* and *ph. rotundum*.

G: D. (2228)

Bobretzky, N. Ueber die Bildung des Blastoderms und der Keimblätter bei den Insecten. (Zeitsch. f. wissensch. Zool., 1878, v. 31, p. 195-215, pl. 14.)

Historical; development of the blastoderm and germinal layer, based upon study of the eggs of *Pieris crataegi* and *porthezia chrysoirhea*; summary of processes as follows (p. 207-208):—1st. Before the appearance of the blastoderm an increase takes place in the formed elements in the yolk, which consist of protoplasm with a nucleus and which have the morphological value of true cells.—2nd. A part of such elements gradually comes out of the yolk upon the surface of the egg and there forms the blastoderm, in the formation of which no special blastem layer takes part.—3rd. Another part of the same elements remains in the yolk after the formation of the blastoderm, and later causes the subdivision of the yolk into the so-called yolk-masses or yolk-balls, which are to be considered as true cells.—Comparison with the same processes in the other classes of arthropoda. *G. D.* (2229)

[**Bombyx mori.**] (Journ. applied sci., March 1881, v. 12, p. 43, 23 cm.)

On the weight of cocoons and of eggs, on the number of eggs to a given weight, and on the number of eggs laid by a single moth. *G. D.* (2230)

Bowles, G. J., ed., see CANADIAN ENTOMOLOGIST.

Brandt, Alexander. Ueber die Eiröhren der *blatta (periplaneta) orientalis*. (Mém. acad. impér. sci. St. Pétersb., s. 7, v. 21, no. 12.) St. Pétersbourg, 1874. t. p. cover, t. p., 30 p., 1 pl., 33×24. t 21×15.3. Pam., 40 kop.

Anatomical; upon the ovaries of *b. orientalis* and the development of the eggs in them. *G. D.* (2231)

Brandt, Eduard [K.] Ueber die Metamorphosen des Nervensystems der Insekten [Rec., 1451].

Notice. (Monthly Journ. sci., Oct. 1879, s. 3, v. 1, p. 703-704.) *G. D.* (2232)

Brandt, Eduard K. Nervnaia sistema os, *vespa*. (Protocoly S.-Peterburgskago obshchestva estestvoispytatelei, tom 7, str. 93.) S.-Peterburg, 1878. 12+3 p., 1 pl., 21×14.5, t 16.5×10.

The development and adult structure of the nervous system of *vespa vulgaris* described and figured. Literature (12 titles). *G. D.* (2233)

Brandt, Eduard K. O nervnoi sisteme vee-rokrylykh, *strepsiptera*. Iz Protokolov Trudov Russkago entomologicheskago obshchestva, tom 11, 1878 g. S.-Peterburg, 1878. 8 p., 21×14.5, t 16.5×10.

Anatomy of the nervous system of *strepsiptera*; figures the nervous system of *stylops militae*. *G. D.* (2234)

Brandt, Eduard K. Ein offener Brief an Herrn Prof. Fr. Leydig. Ueber *evania appendigaster*. St. Petersburg, 1878. 7 p., 21×14.5, t 17×10.

Figures and describes the nervous system of *e. appendigaster*. *G. D.* (2235)

Brandt, Eduard [K.] Untersuchungen über das Nervensystem der Dipteren [Rec., 1452].

Notice. (Monthly Journ. sci., Oct. 1879, s. 3, v. 1, p. 703-704.) *G. D.* (2236)

Brandt, Eduard [K.] Vergleichend-anatomische Skizze des Nervensystem der Insekten [Rec., 1453].

Notice. (Monthly Journ. sci., Oct. 1879, s. 3, v. 1, p. 703-704.) *G. D.* (2237)

Brandt, Eduard [K.] Vergleichend-anatomische Untersuchungen über das Nervensystem der Hemipteren [Rec., 1454].

Notice. (Monthly Journ. sci., Oct. 1879, s. 3, v. 1, p. 703-704.) *G. D.* (2238)

Brandt, Eduard [K.] Vergleichend-anatomische Untersuchungen über das Nervensystem der Hymenopteren [Rec., 1455].

Notice. (Monthly Journ. sci., Oct. 1879, s. 3, v. 1, p. 703-704.) *G. D.* (2239)

Brandt, Eduard [K.] Vergleichend-anatomische Untersuchungen über das Nervensystem der Käfer, coleoptera [Rec., 1456].

Notice. (Monthly Journ. sci., Oct. 1879, s. 3, v. 1, p. 703-704.) *G. D.* (2240)

Brandt, Eduard [K.] Vergleichend-anatomische Untersuchungen über das Nervensystem der Lepidopteren [Rec., 1457].

Notice. [Monthly Journ. sci., Oct. 1879, s. 3, v. 1, p. 703-704.] *G. D.* (2241)

Brandt, Eduard [K.] Vergleichend-anatomische Untersuchungen über das Nervensystem der Zweiflügler, diptera [Rec., 1458].

Notice. (Monthly Journ. sci., Oct. 1879, s. 3, v. 1, p. 703-704.) *G. D.* (2242)

Buchholz, Reinhold. Reisen in Westafrika. . . Leipzig, F. A. Brockhaus, 1880. . .

Rev. and extracts entitled "Aus der Insectenwelt Ober-Guinea's." (Das Ausland [Stuttgart], 23 Feb. 1880, p. 147-150, 152 cm.)

Contains, according to *Das Ausland*, much upon the habits of ants and termites, and upon the structure of their nests. *G. D.* (2243)

Bush, Mrs. A. E. Ways of *limenitis breddowii*. (Amer. nat., Feb. 1881, v. 15, p. 151.) (Separate [General notes; entomology], from Amer. nat., Feb. 1881, p. 151.)

Brief notes on the habits of this Californian species. *G. D.* (2244)

Butterfly's life (A). ("St. James gazette.") (Springfield [Mass.] d. republican. 9 Oct. 1880, p. 7, col. 1-2, 32 cm.)
Some habits of butterflies. G: D. (2245)

Packard, Alpheus Spring, jr., see UNITED STATES—*Entomological commission*, Bulletin no. 4. The hessian fly . . . [Rec., 2207].

Riley, C: Valentine, see UNITED STATES—*Entomological commission*, Bulletin no. 3. The cotton worm . . . [Rec. 2206].

Schaupp, Frank G: List of the described col. larvae of the U. S. with some remarks on their classification. (Bull. Brooklyn entom. soc., 1879, v. 2, May, p. 1-3; June, p. 13-14; July, p. 21-22; Aug., p. 29-30.)

Introduction, larvae of *cicindelidae*, *corabidae*, *dytiscidae*, *gyriniidae*, *hydrophilidae*, *staphylinidae*, *silphidae* and *saphidiidae*. F: G: S. (2246)

Thomas, Cyrus, see UNITED STATES—*Entomological commission*, Bulletin no. 5. The chinch-bug . . . [Rec., 2208].

[**United States**.—*Entomological commission*. Notes about researches on the cotton worm, *aletia*, and on other insects.] (Amer. nat., Aug. 1879, v. 13, p. 535.) G: D. (2247)

Vanilla culture. (Journ. applied sci., 1 Sept. 1880, v. 11, p. 129, 22 cm.)

Quotes briefly from Belt's "Naturalist in Nicaragua" [Rec., 72] in regard to insects needed to fertilize the vanilla plant [*vanilla planifolia*]. G: D. (2248)

Waily, Alfred. Silk-producing bombyces. (Journ. soc. arts [Lond.], 1 Aug. 1879, v. 27, p. 813-814, 26 cm.)

Time and duration of copulation of several species of silk-producing *bombycidae*; fertility of their eggs. Extracted from *The entomologist*. G: D. (2249)

Waterhouse, C: O. Descriptions of four new species of the genus *inoepeplus* (coleoptera, *cucujidae*). (Annals and mag. nat. hist., s. 5, v. 3, p. 213.)

Describes *inoepeplus aeneomicans* from Jamaica. R: H. (2250)

Weale, J. P. Mansel. Observations on the mode in which certain species of *asclepiadeae* are fertilized. (Journ. Linn. soc., Bot., 3 Nov. 1870, v. 13, p. 48-58.)

Enumerates the insects upon which the pollination of several genera depends. H: T. (2251)

Wedderburn, D: Carnivorous wasps. (Nature, 26 Feb. 1880, v. 21, p. 417, 6 cm.)

A wasp observed devouring a caterpillar which was alive though considerably mangled. F: M: H. (2252)

Westwood, J: Obadiah. [Note on *prosopistoma*.] (Trans. entom. soc. Lond., 1872, Proc., p. 6.)

Lack of perceptible mouth-organs and the structure of the legs characters not in accord with those of *ephemeridae* or *crustacea*. External form resembles *baetisca obesa* Say. S: H. (2253)

Westwood, J: Obadiah. Notes on the genus *prosopistoma* of Latreille. (Trans. entom. soc. Lond., 1877, p. 189-194, pl. 4B-5.)

Literature on the subject; non-agreement between Joly's figures and specimens. Direct observation of the transformation necessary to prove the genus one of the *ephemeridae*. Figures *prosopistoma variegatum*, copies figure of *p. punctifrons* from Joly. S: H. (2254)

Wetmore, C: A. Propagation of the vine. How to regulate vineyards by the use of seedlings. A treatise illustrating the superiority of constitutionally perfect roots. Also an essay on the physical and moral influence of the vine. 2d ed., with appendix. San Francisco, San Francisco Merchant, 1880. t.-p. cover+t.-p.+[1]+25 p., 23 X 14.5; 1 pl., 53 X 71. pm., 25 cts.

Reprinted from the columns of the *San Francisco merchant*. Considers the cultivation of seedling grapes an especially valuable means of preventing the ravages of the phylloxera. B: P: M. (2255)

White, C: A. Progress of invertebrate palaeontology in the United States for the year 1879. (Amer. nat., April 1880, v. 14, p. 250-260.)

Alludes (p. 253-254) to S: H. Scudder's papers on fossil insects. G: D. (2256)

White, C: A. English sparrows refusing to eat worms. (Amer. nat., Sept. 1880, v. 14, p. 671-672.)

Passer domesticus probably not really an insectivorous bird, as it refuses *lumbricus*, which is favorite food of such birds. G: D. (2257)

Whitney, Josiah Dwight. The museum of natural history at Harvard. (Harv. register, Feb. 1880, v. 1, p. 33-34, 56 cm.)

Brief description of the work attempted and that carried out at the Museum of comparative zoology, in Cambridge, Mass. Alludes to Prof. H. A. Hagen's biological collection of insects. G: D. (2258)

Worthington, C: Ellis. A list of diurnal lepidoptera inhabiting the state of Illinois. (Can. entom., March 1880, v. 12, p. 46-50.)

Enumerates about 140 species; describes *pamphila ursa* and *p. pollawattomic*, 2 new species. G: D. (2259)